Permittee-Responsible Compensatory Mitigation Plan Guidance

Eric Reusch
Chief, East Branch
Regulatory Division
U.S. Army Corps of Engineers

June 1, 2016







Mill Creek HDD Hydraulic Fracture Clean-up

Topics

- Overview of Permittee-Responsible Mitigation
- Review "Permittee-Responsible Mitigation Guidance" Document
- Review "Environmentally Preferable" Determination Considerations









Permittee-Responsible Mitigation – Overview

- Permittee retains responsibility for ensuring that required compensation activities are completed and successful.
- Can be located at or adjacent to the impact site or at another location generally within the same watershed as the impact site.
- A compensatory mitigation plan is required.





"Permittee-Responsible Mitigation Guidance" Document

- Purpose: To provide guidance on the required elements of a compensatory mitigation plan that is compliant with 33 CFR 332.
- Benefits: To provide clear expectations to the public and a consistent and more efficient review that is rooted in sound science and is compliant with all applicable laws





"Permittee-Responsible Mitigation Guidance" - Organization

- Basic Information
- Components of a Compensatory Mitigation Plan
- Environmentally Preferable Consideration



Permittee-Responsible Mitigation Guidance May 26, 2016 (Draft)



This Permittee-Responsible Mitigation (PRM) document has been developed to provide guidance on the required elements of a compensatory mitigation (CM) plan that is compliant with 33 CFR 332. This guidance document is applicable to all type of permittee-responsible compensatory mitigation, including on-site and off-site mitigation. As stated in 33 CFR 332.3(e)(3)(iii) and 230.93(e)(3)(iii), the level of information and analysis contained in a mitigation plan must be commensurate with the scope and scale of the authorized impacts and functions lost. Please provide the following information with the submittal of a permittee-responsible mitigation plan:

A. Basic Information

- <u>DA Permit Number</u>: Provide the DA permit number for which PRM is proposed as well as other past or current permits from state or federal agencies.
- 2. Applicant. Provide contact information for the applicant, landowner(s), and agent(s).
- 3. Agent. Identify consultants or experts to be involved in design of the compensation site, and list their qualifications and experience in designing and implementing mitigation projects.
- 4. <u>Impact Site</u> Identify the resource type(s) and amount(s) of waters of the U.S. to be impacted by the project for which PRM is proposed. Please specify whether impacts will be temporary or permanent. For temporary impacts, please include an estimated schedule outlining when restoration of the temporary impacts would occur.
- a. List the impact site(s) location from the nearest intersection of roads. List the nearest town, county, state, HUC-8 watershed, HUC-12 watershed, EPA ecoregion (Level III) and provide the impact site(s) coordinates in decimal degrees (NAD 83) and any associated available shapefiles relating to the proposed impact site.
- b. Describe and quantify the aquatic resource type and functions that will be lost at the proposed impact site (e.g. RBF score, TRAM, etc.). Please fill out applicable items 6(a), (b), (e), (d)(ii), (iv)-(vi) in the "Baseline Information" section for proposed stream relocations.
- c. Describe existing aquatic resource concerns in the watershed (e.g. flood storage, water quality, habitat, etc.) and how the impact site currently contributes to overall watershed/regional functions.

B. Components of a Compensation Mitigation (CM) Plan

1. Executive Summary. Provide a brief, narrative overview of the mitigation plan (approximately one page). The narrative should summarize the amount, aquatic resource type (e.g. Cowardin, HGM, ecological, and/or Rospen stream classification), and functional capacity of both the aquatic resources proposed for impact and those proposed to be established, restored, enhanced, or preserved in the CM plan. The narrative should also explain how the CM work would replace aquatic resource functions that would be lost as a result of the proposed project.

Permittee-Responsible Mitigation Guidance May 26, 2016 (Draft)





Basic Information

- DA Number
- Applicant
- Agent
- Impact Site: location, characterize impacts and functions lost







Components of a Compensatory Mitigation Plan -12 Elements [33 CFR 332.4(c)]

- Objectives
- Site Selection
- Site Protection Instrument
- Baseline Information
- Credit Determination
- Mitigation Work Plan

- Maintenance Plan
- Performance Standards
- Monitoring Requirements
- Long-Term Management
- Adaptive Management
- Financial Assurances





Executive Summary

▶ Brief narrative overview: overview of plan, impact summary, how lost function will be replaced

Project Goals

► Addresses improving specific physical, chemical, and/or biological functions at the proposed compensatory mitigation site.





Objectives

- ▶ Resource type/amount to be provided
- ► Method of compensation (restoration, enhancement, etc.)
- ► Specific and quantitative

Site Selection

- ▶ Watershed overview
- ► Site constraints



► Additional site selection criteria



Site Selection [33 CFR 332.3(d)]









- Site Protection Instrument[33 CFR 332.7(a)]
 - ➤ Conservation easement, restrictive covenant, deed restriction, etc.
 - ► Should include prohibited uses (ATV use, cutting vegetation, grazing etc.)





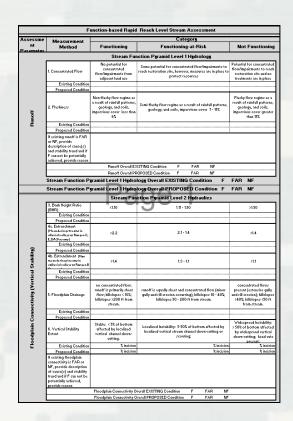


Baseline Information

- ▶ Description of Ecological Characteristics
 - Both impact site and mitigation site
 - Delineation of waters of the U.S.
- ► Maps: Historic and Existing Conditions
 - · Plant communities, hydrology, soils
- ▶ Baseline Stream/Wetland Assessment
 - Data Forms, Habitat Assessments
- ► Additional Factors
 - ESA, Historic Properties, Toxic Waste, etc.



- Determination of Credits [33 CFR 332.3(f)]
 - Mitigation approach and crediting summary
 - ► Functional lift to be provided and ratios utilized
 - Explain how compensatory mitigation project will fully offset unavoidable impacts to aquatic resources.







- Mitigation Work Plan: Detailed written specifications and work descriptions
 - ► Project boundaries
 - ▶ Construction methods/ timing/ sequence
 - ► Planted vegetation and invasive plant species control
 - Grading plan, soil management, erosion control
 - ► Hydrologic assessments, reference site



Maintenance Plan

- ► A description and schedule of maintenance requirements to ensure the continued viability of the resource once initial construction is completed.
- ▶ Identify responsible party.

Performance Standards (33 CFR 332.5)

 Ecologically-based standards that will be used to determine whether the project is achieving its objectives.

- Monitoring Requirements (33 CFR 332.6): Description of parameters to be monitored in order to determine if the project is meeting performance standards and the need for adaptive management.
 - ► Monitoring plan with responsible party identified
 - ► Reporting format/timeframes





- Long-term Management (LTM) Plan [33 CFR 332.7(d)]: How the mitigation project will be managed after performance standards have been achieved to ensure long-term sustainability.
 - ▶ Describe LTM needs, annual cost estimate
 - ► Funding mechanism, responsible party
 - ► Appendix E of Guidance





- Adaptive Management Plan [33 CFR 332.7(c)]: A management strategy to address unforeseen changes in site conditions or other components of the mitigation project, including the party or parties responsible for implementing adaptive management measures.
 - ▶ Identify potential risks and potential corrective measures





- Financial Assurances [33 CFR 332.3(n)]: A description of financial assurances that will be provided and how they are sufficient to ensure a high level of confidence that the mitigation project will be successfully completed, in accordance with its performance standards.
 - ► Appendix F of Guidance
 - ► Responsible party, type of financial instrument
 - ► IWR White Paper: Financial Assurances





- Other Information: The district engineer may require additional information as necessary to determine the appropriateness, feasibility, and practicability of the mitigation project.
 - ► Access to Property
 - ► TDEC in-system mitigation requirement (conditions unavailable / exceptional TN water)



- DE must consider what will be environmentally preferable
- Specific criteria must be evaluated to determine if the proposed mitigation is the environmentally preferable option, which includes consideration of the preference hierarchy at 33 CFR 332.
- Preference hierarchy [33 CFR 332.3(b)(2)–(6)]





- Uncertainty and Risk
- Size and Ecological Value of Parcel
- Temporal Loss
- Scientific/Technical Analysis

- Long-Term Viability of Mitigation
- Site Protection
- FinancialAssurances
- Other Relevant Factors





Uncertainty and Risk

- ► Uncertainty: the element associated with whether the mitigation will successfully offset project impacts.
- ► Risk: the element associated with the potential for the proposed plan to fail.





- Size and Ecological Value of Parcel;
 Watershed Approach
 - ► The physical characteristics of the parcel, watershed scale features, size, and location; compatibility with adjacent land uses; and, likely effects on important resources will be considered to determine how the site is ecologically suitable for mitigation compared to mitigation bank and in-lieu fee.





Temporal Loss

- ► The time between the initiation of the mitigation plan and the maturation of anticipated ecological functions at a CM site.
- ► Considers duration between impact start date and completion of mitigation activities.







- Scientific/Technical Analysis, Planning, and Implementation
 - ► The level of scientific/technical evaluation required to appropriately and adequately assess the likelihood for ecological success and sustainability.





Long-Term Viability of Mitigation Site

► How the CM project will be managed after performance standards have been achieved to ensure long-term sustainability of the

resource







Site Protection

► Aquatic habitats, riparian areas, buffers, and uplands that comprise the overall CM must be provided long-term protection through real estate instruments or other available mechanisms.







Financial Assurances

▶ Description of financial assurances that will be provided and how they are sufficient to ensure a high level of confidence that the CM project will be successfully completed, as well as annual cost estimates for the long-term management needs of the site and the funding mechanism that will meet those needs.





Other Relevant Factors

► Additional information contributing to the appropriateness, feasibility, or practicability of the mitigation project (ESA, wildlife corridor, unique habitat, etc.)







Permittee-Responsible Mitigation Plan Guidance - Summary

- Compensatory mitigation plans must address the 12 elements at 33 CFR 332.4(c).
- Specific criteria must be evaluated to determine if the proposed mitigation is the environmentally preferable option, with consideration of the preference hierarchy.
- The Guidance Document is intended to provide clear expectations to the public and a consistent and more efficient review that is rooted in sound science and is compliant with all applicable laws.





Questions?



http://www.lrn.usace.army.mil/Missions/Regulatory.aspx



